

WHAT IS CLAIMED IS:

1.           A brake device comprising:  
              an actuator which is provided on a wheel side of a vehicle having a suspension and generates a braking force by being electrically driven; and  
              a drive controller for receiving a signal regarding the braking force from a vehicle motion controller and driving said actuator,  
              wherein said drive controller is attached to said actuator side and makes communication with said vehicle motion controller provided on a vehicle body side of said vehicle by bidirectional multiplex communication.
2.           A brake device according to claim 1, wherein in a portion connecting the vehicle body side and the wheel side, a signal line connecting said drive controller and said vehicle motion controller and a power line for supplying an electric power to said drive controller are constructed by one cable covered with a same sheath.
3.           A brake device according to claim 2, wherein said power line of said cable is a twisted pair-wire and said signal line of said cable is a coaxial wire.
4.           A brake device according to claim 1, wherein communication information of said drive controller and said vehicle motion controller is transmitted by using a power line for supplying an electric power to said drive controller.

20200728-020702

5. A brake device according to claim 1, wherein communication between said drive controller and said vehicle motion controller is made by radio communication.

6. A brake device according to claim 1, wherein a wheel speed sensor for detecting a rotational speed of the wheel and said drive controller are electrically connected.

7. A brake device according to claim 1, wherein a pad abrasion sensor for detecting an abrasion of a brake pad and said drive controller are electrically connected.

8. A brake device according to claim 1, wherein an air pressure sensor receiver for receiving a radio signal from an air pressure sensor provided for a tire and said drive controller are electrically connected.

9. A brake device comprising:

an actuator which is provided on a wheel side of a vehicle having a suspension and generates a braking force by being electrically driven; and

a drive controller for receiving a signal regarding the braking force from a vehicle motion controller and driving said actuator,

wherein said drive controller is provided on a vehicle body side of said vehicle and, in a portion connecting the vehicle body side and the wheel side, a signal line connecting said drive controller and said

10067288-020702

- 22 -

actuator is constructed by one cable covered with a same sheath.

10067288.020702